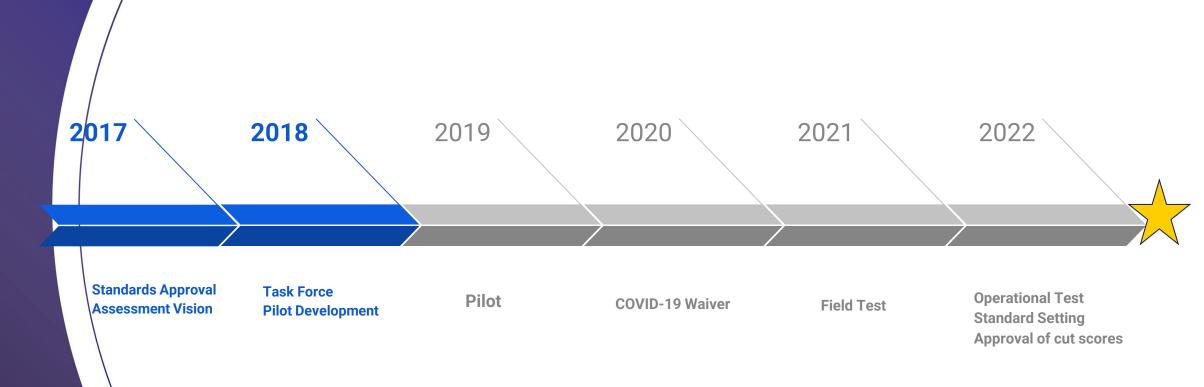
NSCAS Science: Standard Setting

August 2022

NSCAS Science Development Timeline



Standard Setting for Assessments

- Process of determining the scores (or the point(s) of achievement) that determine the category of a student's proficiency.
 - Advanced: "...demonstrate high levels of proficiency..."
 - On Track: "...demonstrate proficiency..."
 - Developing: "...do not demonstrate proficiency..."
- Occurs as a result of new assessment items measuring revised content area standards and a revised Table of Specifications (e.g. what is tested).

Standard Setting for Assessments

For example...



NSCAS Science and Alternate Science: Standard Setting Process

• NSCAS Science (Grades 5 & 8)

- NSCAS Alternate Science (Grades 5, 8, & 11)
 - 1% of students with the most significant cognitive disabilities.

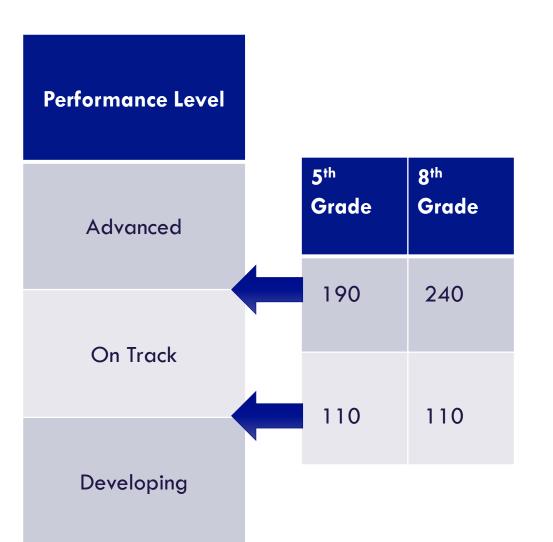
NSCAS Science and Alternate Science: Standard Setting Process

- Panelist Selection and Training:
 - Nebraska educators with science education expertise, including teachers, curriculum directors, postsecondary faculty, district assessment coordinators, etc.
- Method: Extended Angoff & Yes/No Angoff (Alternate)
- Multiple Rounds of Judgements:
 - Informed by content expertise, professional conversations, and impact data from Spring 2022 assessment.
 - Independent recommendations inform the group's recommendations.

NSCAS Science and Alternate Science: Standard Setting Process

- Educators determined scores most likely for each proficiency level.
 - "Would a student that is barely advanced student get this question correct?"
- Panelists reviewed item data between rounds.
- Scores were aggregated and presented to the NDE as a recommended range around a median cut.
- Recommended cut scores reflect the recommendations of the panel.

NSCAS Science: Cut Score Recommendations



NSCAS Science Scales:

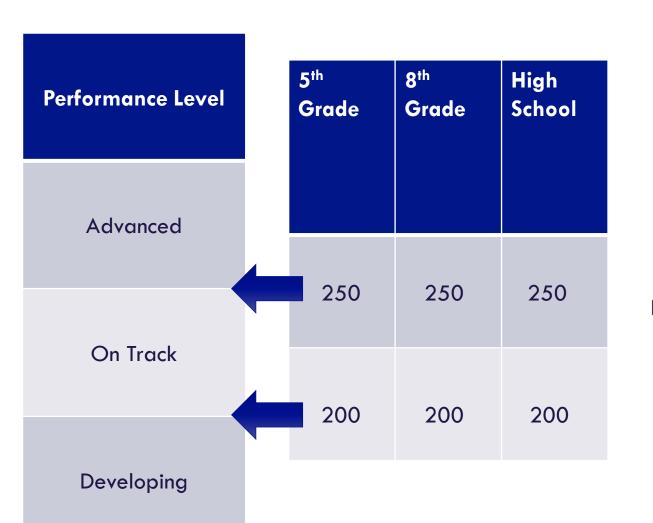
Grade 5: 100-220

Grade 8: 100-330

NSCAS Science: Recommended Cut Score with Impact Data

Performanc e Level	5 th Grade	5 th Grade % Proficient	8 th Grade	8 th Grade % Proficient	
Advanced	4.0%	4.4.00/	3.1%	52.1%	
On Track	60.0%	64.0%	45.3%		
Developing	32.0%		47.9%		

NSCAS Science Alternate: Cut Score Recommendations



NSCAS Alternate Science Scale: 100 to 300 points

NSCAS Science Alternate: Recommended Cut Score with Impact Data

Performance Level	5 th Grade	5 th Grade % Proficient	8 th Grade	8 th Grade % Proficient	HS	HS % Proficient
Advanced	8.4%	44.004	7.0%	57.0%	10.4%	45.5%
On Track	37.9%	46.3%	50.0%		45.1%	
Developing	53.7%		43.0%		44.6%	

State Board Policy Decision

- August:
 - Action Item: Approve the cut scores for NSCAS Science and NSCAS Science Alternate.



Questions?